PCT

REQUEST

For receiving Office use only	_
International Application No.	
International Filing Date	
Name of receiving Office and "PCT International Application"	

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty. Applicant's or agent's file reference (if desired) (12 characters maximum) PC541ED Box No. I TITLE OF INVENTION 'An optical system for detecting the concentration of combustion products' Box No. II APPLICANT This person is also inventor Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) Telephone No. Facsimile No. INFM ISTITUTO NAZIONALE PER LA FISICA DELLA Teleprinter No. Corso F. Perrone 24 I-16152 GENOVA (Italy) Applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence: IT This person is applicant all designated States all designated States except the United States of America the United States the States indicated in the Supplemental Box for the purposes of: FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) Box No. III Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only LAFORGIA, Domenico Via Nicolai 20 applicant and inventor inventor only (If this check-box is marked, do not fill in below.) I-70122 BARI (Italy) Applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence: IT IT This person is applicant all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box for the purposes of: Further applicants and/or (further) inventors are indicated on a continuation sheet. Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE The person identified below is hereby/has been appointed to act on behalf common representative agent of the applicant(s) before the competent International Authorities as: Name and address: (Family name followed by given name; for a legal entity, full official designation.

The address must include postal code and name of country.) Telephone No. (39) (011) 24.40.311 DEAMBROGI, Edgardo; JACOBACCI, Guido; Facsimile No. QUINTERNO, Giuseppe; RAMBELLI, Paolo; GERBINO, (39) (011) 28.63.00 Angelo; SERRA, Francesco; FIORAVANTI, Corrado; Teleprinter No. COMOGLIO, Elena; RONDANO, Davide; JACOBACCI & PARTNERS SpA, Corso Regio Parco 27, Agent's registration No. with the Office I-10152 TORINO (IT) Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the

space above is used instead to indicate a special address to which correspondence should be sent.

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) If none of the following sub-boxes is used, this sheet should not be included in the request.			
Name and address: (Family name followed by given name; for a legal entit The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence DE RISI, Arturo Antonio P.tta Toscanini 1 I-73100 LECCE (Italy)	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office		
State (that is, country) of nationality:	State (that is, country,) of residence:	
This person is applicant all designated for the purposes of: all designated the United States		the United States of America only the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence DE VITTORIO, Massimo Corte dei Giugni 12 I-73100 LECCE (Italy)	e address indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office	
State (that is, country) of nationality:	State (that is, country)) of residence:	
This person is applicant all designated for the purposes of:		the United States of America only the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence CINGOLANI, Roberto Via E. Indraccolo 20 I-73100 LECCE (Italy)	e address indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office	
State (that is, country) of nationality:	State (that is, country)	of residence:	
This person is applicant all designated all designated for the purposes of:		the United States of America only the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence PASSASEO, Adriana Via Vecchia San Cesario 3 I-73100 LECCE (Italy)	e address indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office	
State (that is, country) of nationality:	State (that is, country)	of residence:	
This person is applicant all designated all designated for the purposes of:		the United States of America only the States indicated in the Supplemental Box	
Further applicants and/or (further) inventors are indicated on	another continuation	sheet.	

Continuation of Box No. III FURTHER APPLICANT(S) A If none of the following sub-boxes is used, this sheet should not				
Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence LOMASCOLO, Mauro Piazza L. Ariosto 21 1-73100 LECCE (Italy)	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office			
State (that is, country) of nationality:	State (that is, country)	of residence:		
This person is applicant all designated all designated	States except	the United States of America only the States indicated in the Supplemental Box		
Name and address: (Family name followed by given name; for a legal entit The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	e address indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office		
State (that is, country) of nationality:	State (that is, country)	of residence:		
This person is applicant all designated all designated for the purposes of:		the United States the States indicated in the Supplemental Box		
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	address indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office		
State (that is, country) of nationality:	State (that is, country)	of residence:		
This person is applicant all designated for the purposes of:		he United States the States indicated in the Supplemental Box		
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State (that is, country) of nationality:	State (that is, country)	of residence:		
This person is applicant all designated all designated for the purposes of:	States except tes of America	he United States the States indicated in the Supplemental Box		
Further applicants and/or (further) inventors are indicated on another continuation sheet.				

Sheet No. 4

Box No. V DESIGNAT	TIONS			,
The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.				ne PCT on the international ional and national patents.
However,	•			
DE Germany is not d	esignated for any kind of nati	onal protection		
KR Republic of Kore	a is not designated for any ki	nd of national protection		
RU Russian Federation	n is not designated for any k	ind of national protection		,
the national law, of an earlie	be used to exclude (irrevocable or national application from w s in these and certain other St	hich priority is claimed. S	rned in order to avoid the See the Notes to Box No. V	ceasing of the effect, under
Box No. VI PRIORITY	CLAIM			
The priority of the following	gearlier application(s) is hereb	y claimed:		
Filing date of earlier application	Number of earlier application	v	Where earlier application	is:
(day/month/year)	or earner application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office
item (1) (22.12.2003)	•			
22 December 2003	BA2003A000066	ITALY		
item (2)				
item (3)			· ·	
Further priority claims	are indicated in the Supplemen	ntal Box.	<u>' </u>	
The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:				rlier application(s) (only if eceiving Office) identified
all items ite				
* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):				
Box No. VII INTERNAT	IONAL SEARCHING AUT	HORITY		
Choice of International Sea international search, indicate	arching Authority (ISA) (if to the Authority chosen; the two-	wo or more International S -letter code may be used):	earching Authorities are	competent to carry out the
ISA / .EP	• • • • • • • • • • • • • • • • • • • •			
Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):				
Date (day/month/year)	Numb	er Coun	try (or regional Office)	
Box No. VIII DECLARAT	TIONS			
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable Check-boxes below and indicate in the right column the number of each type of declaration): Number of declarations				
Box No. VIII (i) Declaration as to the identity of the inventor :				
Box No. VIII (ii)	Box No. VIII (ii) Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent 1			
Box No. VIII (iii)	Declaration as to the applic date, to claim the priority of		ne international filing	:
Box No. VIII (iv)	Declaration of inventorship (only for the purposes of the designation of the United States of America) (to follow) : 1			
Box No. VIII (v)	Declaration as to non-preju	• •	•	:

Sheet No. 5

Box No. VIII (ii) DECLARATION: ENTITLEMENT TO APPLY FOR AND BE GR	SANTED A	PATENT
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The declaration must conform to the standardized wording provided for in Section 212; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (ii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:

In relation to this international application

INFM ISTITUTO NAZIONALE PER LA FISICA DELLA MATERIA is entitled to apply for and be granted a patent by virtue of the following:

- (iv) an assignment from INFM ISTITUTO NAZIONALE PER LA FISICA DELLA MATERIA to Mr. LAFORGIA Domenico, Mr. DE RISI Arturo Antonio, Mr. DE VITTORIO Massimo, Mr. CINGOLANI Roberto, Ms. PASSASEO Adriana, Mr. LOMASCOLO Mauro dated September 2003
 - (ix) this declaration is made for the purposes of:
 - (a) all designations (except the designation of the United States of America)

This declaration is continued on the following sheet, "Continuation of Box No. VIII (ii)".

Sheet No. ...6

Box No. IX CHECK LIST; LANGU	AGE OF	FILIN	NG	
This international application contains: (a) in paper form, the following number of sheets:		This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):		
request (including declaration sheets) :	6	_	fee calculation sheet original separate power of attorney (to follow)	. : : : :
description (excluding sequence listing and/or tables related thereto)	1		original general power of attorney copy of general power of attorney; reference number,	:
claims : abstract :			if any:	:
drawings :Sub-total number of sheets :	27 1		priority document(s) identified in Box No. VI as item(s): (1)	:
sequence listing : tables related thereto :		7. [X]	(language): . ENGLISH .(T.O.F.OLLOW).	:
(for both, actual number of sheets if filed in paper form, whether or not also filed in		9.	or other biological material sequence listing in computer readable form	:
computer readable form; see (c) below)		(i)	(indicate type and number of carriers) copy submitted for the purposes of international search Rule 13ter only (and not as part of the international app	under lication) :
Total number of sheets (b) only in computer readable form	37	(ii)	(only where check-box (b)(i) or (c)(i) is marked in left coluadditional copies including, where applicable, the copy purposes of international search under Rule 13ter	mn)
(Section 801(a)(i)) (i) sequence listing (ii) tables related thereto		(iii)	together with relevant statement as to the identity of the copies with the sequence listing mentioned in left column	copy or in :
(c) also in computer readable form (Section 801(a)(ii))	i	0. 🗖	tables in computer readable form related to sequence listing (indicate type and number of carriers)	
(i) ☐ sequence listing (ii) ☐ tables related thereto		(i)	copy submitted for the purposes of international search Section 802(b-quater) only (and not as part of the internapplication)	under ational :
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the	,	(ii)	(only where check-box (b)(ii) or (c)(ii) is marked in left colladditional copies including, where applicable, the copy purposes of international search under Section 802(b-qu	for the
sequence listing: tables related thereto: (additional copies to be indicated under			together with relevant statement as to the identity of the copies with the tables mentioned in left column other (specify):	;
items 9(ii) and/or 10(ii), in right column) Figure of the drawings which should accompany the abstract: 1, 2 interpretional analysis interpretional analysis interpretional analysis interpretional analysis interpretional analysis in terpretional analysis in the abstract.				
Box No. X SIGNATURE OF APPLI	CANT. A	GENT	onal application: Italian T OR COMMON REPRESENTATIVE	
Next to each signature, indicate the name of the per	son signing	and the	capacity in which the person signs (if such capacity is not obvious from	reading the request).
DEAMBROGI, Edgardo				
For receiving Office use only				
1. Date of actual receipt of the purported international application: 2. Drawings:			¬ ~	
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:				
4. Date of timely receipt of the required corrections under PCT Article 11(2):			not received:	
5. International Searching Authority (if two or more are competent): ISA / 6. Transmittal of search copy delayed until search fee is paid				
For International Bureau use only				
Date of receipt of the record copy by the International Bureau:				